



STEREO CASSETTE TAPE DECK

# KX-5550

## INSTRUCTION MANUAL

KENWOOD CORPORATION

B60-1112-00 JA (K, P, E, T, M, X) MC  
94/12 11 10 9 8 7 6 5 4 3 2 1 93/12 11 10 9 8 7 6 5 4 3

## Introduction

Your choice of this product indicates that you are a devotee to excellence in sound reproduction.

We appreciate your patronage and take pride in the long tradition of quality components that our company represents.

So that you can get the most out of your unit, we suggest that you take the time to read through this manual before you hook up and operate your system. This will acquaint you with operating features and system-connection considerations so that your listening pleasure will be enhanced right from the start. You will notice that in all aspects of planning, engineering, styling, operating convenience and adaptability we have sought to anticipate your needs and desires.

**Keep this manual handy for future reference.**

### For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model \_\_\_\_\_ Serial Number \_\_\_\_\_

### Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

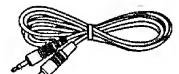
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Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.  
"DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

### Accessories

Audio cord ..... 2      System control cord ..... 1



AC cord ..... 1  
(Except for some areas.)  
(The shape may vary depending on the destination area.)



AC plug adaptor ..... 1  
(Except for some areas.)  
For the unit with a European AC plug in areas other than Europe.

## Contents

**Caution: Read the pages marked  carefully to ensure safe operation.**

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## Before applying power

**Caution:** Read this page carefully to ensure safe operation.

### For the U.S.A. and Canada

#### Important!

Units shipped to the U.S.A. and Canada are designed for operation on 120 volts AC only.

**CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THE AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

### For the United Kingdom

#### Important!

Units shipped to the U.K. are designed for operation on 240 volts AC only.

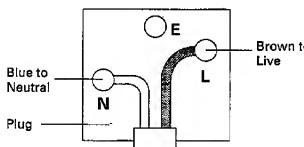
The mains plug must be removed from the wall socket prior to any internal examination.

The wires in this mains lead are coloured in accordance with the following code:

Blue ..... Neutral  
Brown ..... Live

The wires in this mains lead must be connected to the terminals in the plug as follows:

Wire colour                  Plug terminal marking  
Blue ..... N or Black  
Brown ..... L or Red



Notes:  
1. If a 13-amp plug is used, this must be fitted with a 13-amp fuse.  
2. If a 3-pin plug with earthing contact is used, no wire must be connected to the E terminal.

### For Australia and Europe

#### Important!

Units shipped to Australia are designed for operation on 240 V AC only.

Units shipped to Europe are designed for operation on 230 V AC only.

### For other countries

#### Important!

Units shipped to countries other than the above countries are equipped with an AC voltage selector switch on the rear panel. Refer to the following paragraph for the proper setting of this switch.

#### AC voltage selection

This unit operates on 110-120 or 220-240 volts AC. The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

#### Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.



Fig. 1

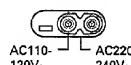


Fig. 2

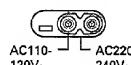


Fig. 3

1. Before plugging in this unit, make sure that the position of the AC Voltage Selector conforms to your line (mains) voltage. If not, it must be reset. See Figure 1.
2. To reset the selector, slide the stopper plate to the opposite side with a screwdriver or other pointed tool. See Figure 2.
3. Insert the power cord securely. See Figure 3.

## Safety precautions

**WARNING:** TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN		'CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.'
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.		
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.		

# IMPORTANT SAFEGUARDS

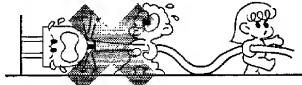
**Caution:** Read this page carefully to ensure safe operation.

Please read all of the safety and operating instructions before operating this unit. For best results, follow all warnings placed on the unit and adhere to the operating and use instructions. These safety and operating instructions should be retained for future reference.

**1. Power sources** – The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**2. Power-cord protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Never pull or stretch  
the cord.

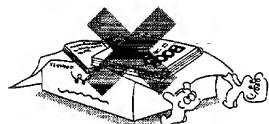


**3. Grounding or polarization** – The precautions should be taken so that the grounding or polarization means of this unit is not defeated.

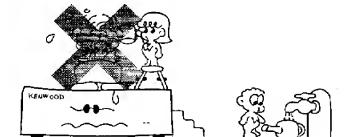
**4. Ventilation** – The unit should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a table-cloth on the unit. Place the unit at least 10 cm away from the walls.

Do not use the unit on a bed, sofa, rug or similar surface that may block the ventilation openings.

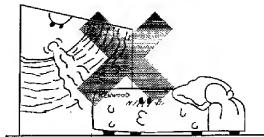


**5. Water and moisture** – The unit should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.



**6. Temperature** – The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

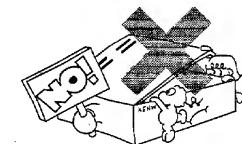
**7. Heat** – The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other units (including amplifiers) that produce heat.



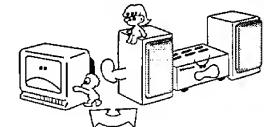
**8. Electric shock** – Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal object, such as a hair pin or a needle, comes into contact with the inside of this unit, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.



**9. Enclosure removal** – Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



**10. Magnetic fields** – Keep the unit away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.



**11. Cleaning** – Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.



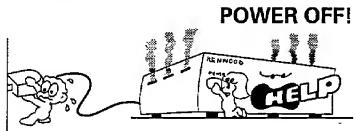
**Caution : Read this page carefully to ensure safe operation.**

**12.Carts and stands** – An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



**13.Nonuse periods** – The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.

**14.Abnormal smell** – If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service center.

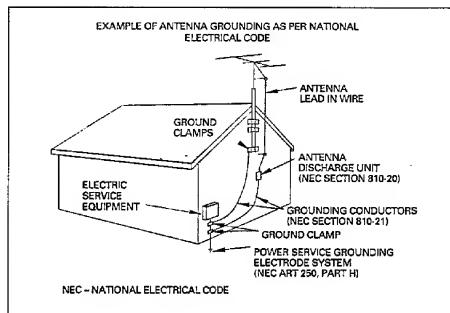


**15.Damage requiring service** – The unit should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has been spilled into the unit; or
- C. The unit has been exposed to rain; or
- D. The unit does not appear to operate normally or exhibits a marked change in performance; or
- E. The unit has been dropped, or the enclosure damaged.

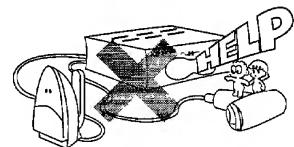
**16.Servicing** – The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**17.Outdoor antenna grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



**18.Power lines** – An outdoor antenna should be located away from power lines.

**19.AC outlets** – Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical units, such as an iron or toaster, to it to prevent fire or electric shock.



Notes:

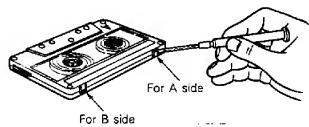
1. Item 3 is not required except for grounded or polarized equipment.
2. Item 17 and 18 are not required except for units provided with antenna terminals.
3. Item 17 complies with UL in the U.S.A.

## Before operation

### Notes on cassette tape

#### Safety tab (accidental erasure prevention tab)

After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.



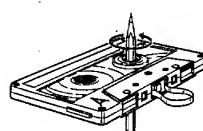
#### To store cassette tapes

Do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



#### When there is slack in the tape

In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.



Notes:

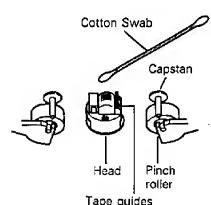
#### 1. 120-minute cassette tape

Since a 120-minute cassette tape is very thin, the tape could adhere here to the pinch roller or be easily cut. It is recommended that these tapes not be used with this unit to prevent possible damage.

#### 2. Endless tapes

Do not use an endless tape, as this could damage the mechanism of the unit.

## Cleaning the head section



#### Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the head (recording/playback/erase), capstan and pinch roller clean.

To clean them, perform the following:

1. Open the cassette holder.
2. Using a cotton swab dipped in alcohol, clean the head (recording/playback/erase), capstan and pinch roller carefully.

#### Demagnetizing the head

When the recording/playback head is magnetized, the sound quality will be deteriorated. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

Note: \_\_\_\_\_  
There are precisely aligned parts around the heads, including the tape guides.  
When cleaning, pay special attention so as not to apply shock to them.

## Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.

If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

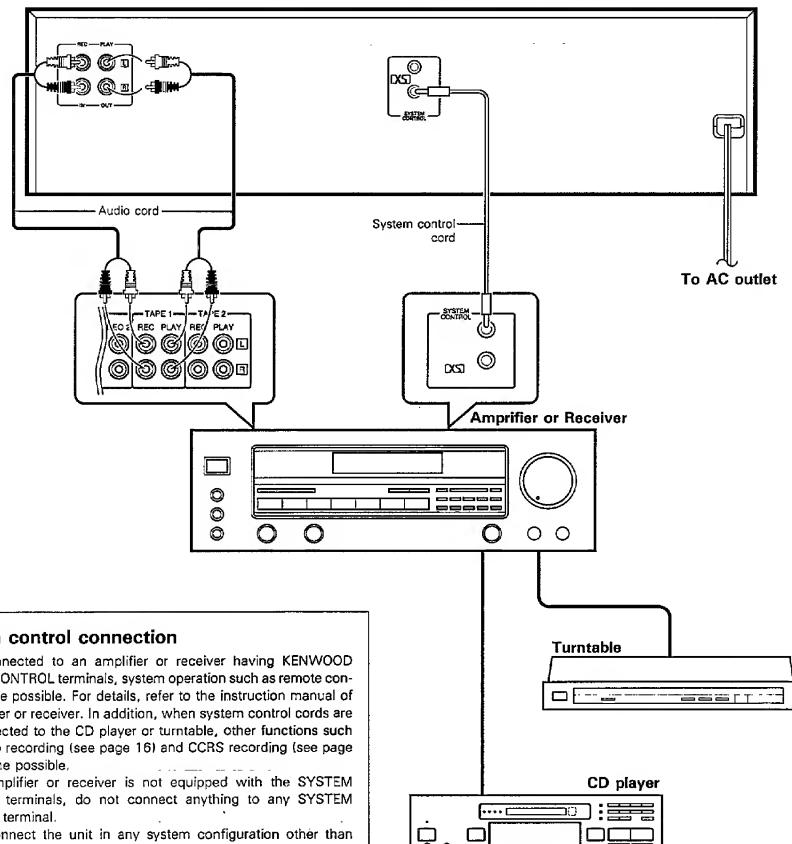
This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be specially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and ambient temperature, or in conditions where condensation occurs easily.

## System connections

Make connection as shown below. When connecting the related system components, refer also to the instruction manuals of the related components.  
Do not plug in the power lead until all connections are completed.

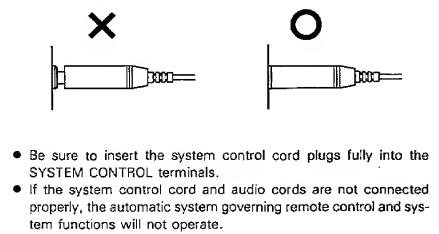


### System control connection

When connected to an amplifier or receiver having KENWOOD SYSTEM CONTROL terminals, system operation such as remote control is made possible. For details, refer to the instruction manual of the amplifier or receiver. In addition, when system control cords are also connected to the CD player or turntable, other functions such as synchro recording (see page 16) and CCRS recording (see page 18) become possible.

If your amplifier or receiver is not equipped with the SYSTEM CONTROL terminals, do not connect anything to any SYSTEM CONTROL terminal.

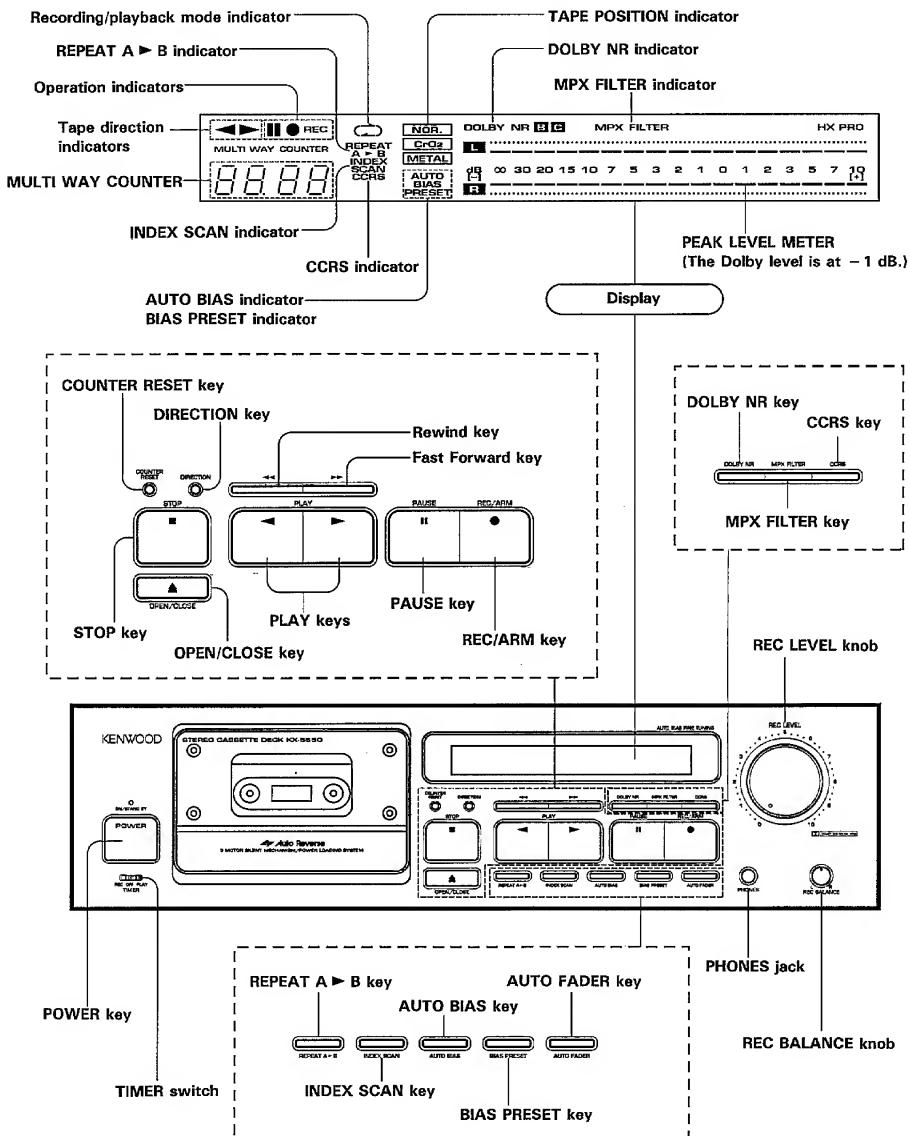
Do not connect the unit in any system configuration other than specified.



#### Notes:

1. Connect all cords firmly. If connections are loose there could be loss of sound or noise produced.
2. When plugging and unplugging connection cords, be sure to first remove the power cord from the AC outlet. Plugging/unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.

## Controls and indicators



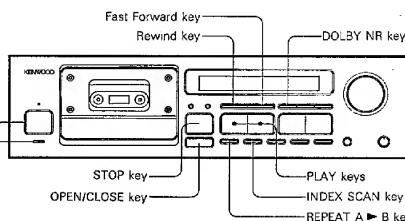
## Listening to cassette tapes

### Before starting playback.

- ① Set the TIMER switch to OFF.

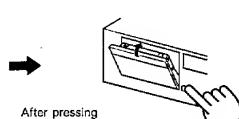
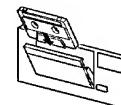
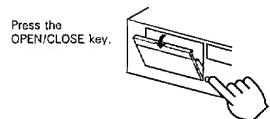


- ② Set the POWER switch to ON.



### ■ To play back a tape

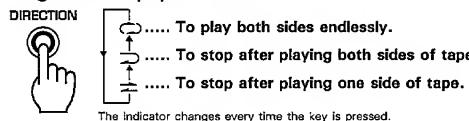
#### 1 Insert a cassette tape.



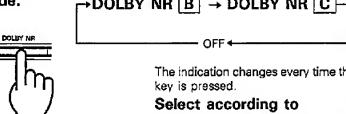
- The type of tape, Normal, Chrome or Metal, is detected and set automatically.
- Be sure to remove tape slack before insertion.

#### 2 Determine the playback conditions.

- ① Select the playback mode.

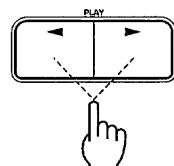


- ② Select the Dolby NR mode.



The indication changes every time the key is pressed.  
Select according to the tape to be played.

#### 3 Start playback.



To stop playback, press the ■ key.

- Do not press the OPEN/CLOSE key until the tape has stopped completely.

### Listening through headphones

Insert the plug of commercially-available headphones into the PHONES jack.



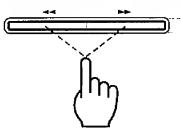
## Listening to cassette tapes

### ■ To wind the tape at high speed

#### 1 Stop playback.

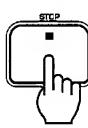


#### 2 Press the $\ll$ key or $\gg$ key.



$\ll$ : Fast tape winding in the  $\leftarrow$  direction  
 $\gg$ : Fast tape winding in the  $\rightarrow$  direction

#### To stop fast tape winding



### ■ Index scan operation

Index scan plays the first about 10 seconds of every tune on tape.

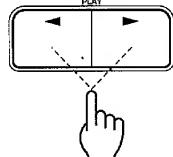
#### Press the INDEX SCAN key.



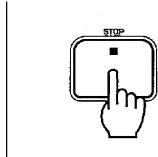
INDEX SCAN

Lights up

#### To cancel Index scan:



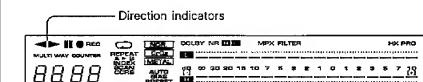
• Normal playback starts.



• Playback stops.

### Tape transport direction indicators

The  $\ll$  and  $\gg$  indicators show the direction of tape transport in its playback or recording. The direction selected when the tape was stopped the last time is maintained even after the power is turned off. When the tape is started automatically by the automatic play operation, etc., the transport starts with the direction shown by the direction indicator. If you want to change the transport direction for the next time the power is turned on, press the play key of the opposite direction before turning power off.

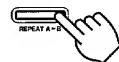


### ■ A/B repeat operation

A/B repeat plays the block between two designated points repeatedly.

This function is activated during playback.

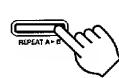
#### 1 Register start point A.



Lights up

Leave an interval of more than 10 seconds.

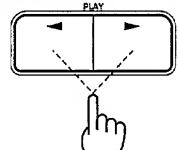
#### 2 Register end point B.



B lights up

- A/B repeat starts automatically.
- After repeating playback 16 times, normal playback resumes.
- The counter shows the total number of repetition.

#### To cancel in the middle:

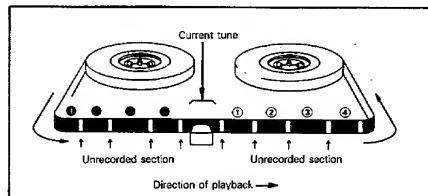


- The A/B repeat operation is also canceled by pressing the REPEAT A-B key.

## DPSS operation

The DPSS (Direct Program Search System) enables the following convenient operations according to the instructions of the operation keys. The DPSS functions are based on the detection of non-recorded spaces of 4 seconds or more between tunes.

1. Skip play: By specifying a tune located several tunes beyond (or behind) the tune being played, skips tunes between the current tune and the selected tune and starts playback from the beginning of the selected tune. Up to 16 tunes can be skipped in Skip Search.
2. Single-tune repeated playback: One single tune is played back repeatedly up to 16 times.
3. Rewind & Play: Rewinds the tape to the beginning and starts playback from there.
4. Dash & Play: If a non-recorded space of more than 10 seconds is detected during playback, that space will be skipped by fast forward tape winding.



### ■ Skip play operation

The example below shows the case in which the direction indicated by the tape transport direction indicator is ▶. If the direction indicated by the tape direction indicator is ▷, always press the keys for the opposite directions to those shown in the illustrations below.

To play a tune located immediately after the tune being played:

Press once during the playback.

To play the tune being played from the beginning:

Press once during the playback.

To play a tune located 4 tunes beyond:

Press 4 times during the playback.

To play the tune located 4 tunes behind:

Press 5 times during the playback.

**Index scan and DPSS will not function properly with the following types of tapes.**

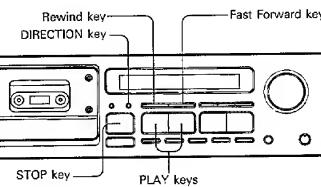
- Tapes containing spaces of 4 seconds or more, such as conversations and speeches.
- Tapes containing extremely low levels or non-recorded spaces in the middle of tunes, such as classical music.
- Tapes containing recording or large noise between tunes.
- Tapes recorded with low recording level.
- Tapes recorded using Cross-fade recording.

**MULTI WAY COUNTER display during skip play**

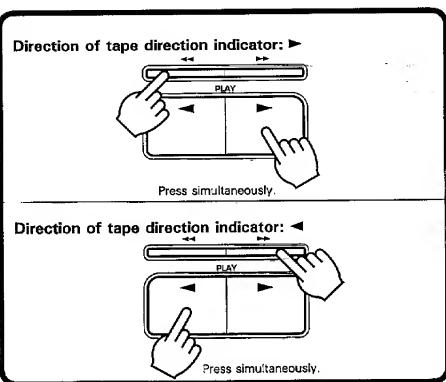
The skipping condition is displayed on the MULTI WAY COUNTER during skip play. The left counter displays pressing times of the **◀** or **▶** key and the right counter displays object tune number.

The pressing times of the **◀** or **▶** key  
(The specified skipping times)

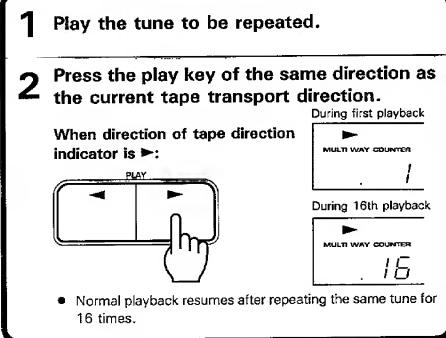
The object tune number  
(It decreases every time a tune is skipped.)



### ■ Rewind & Play operation



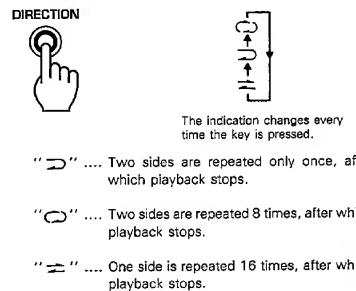
### ■ Single-tune repeated playback operation



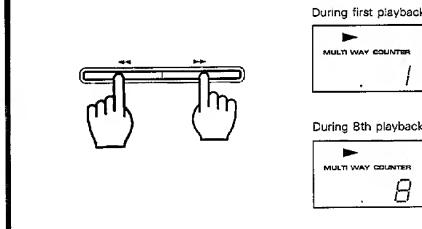
### ■ Dash & Play operation

The Dash & Play skips long non-recorded spaces automatically as the tape is played.

#### 1 Determine the playback mode (conditions).



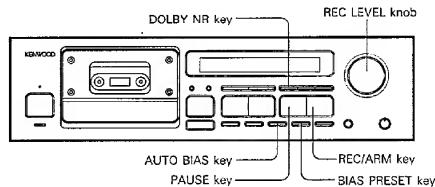
#### 2 Press the and keys simultaneously.



### To cancel the playback above in the middle:



## How to record



### Auto-bias adjustment:

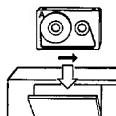
Tapes are available in a wide range from popular models to high-class models, and their characteristics are not uniform. This unit incorporates the auto-bias adjustment function which allows to perform recording with optimum bias value for any kind of tape.

### Bias preset:

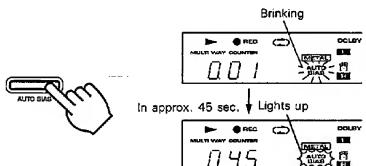
The optimum bias value set by the auto-bias function can be stored in memory for each type of memory (Normal/Chrome/Metal). The stored bias values can be recalled easily by pressing the BIAS PRESET key.

### ■ Bias preset operation

#### 1 Insert a tape.

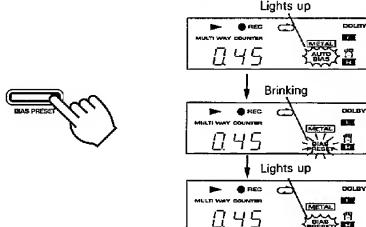


#### 2 Set the optimum bias value.



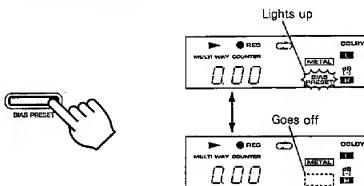
- Optimum bias is set in about 45 seconds, then the unit enters the stop mode.

#### 3 Store the value in preset memory.



- If a value has already been preset, it is replaced by the new bias value.

### To cancel the preset value



- Each time this key is pressed, the bias reset mode is turned between initial bias setting and memorized bias setting.

### Recording with Dolby HX Pro

When recording is started with this unit, the Dolby HX Pro headroom extension function automatically operates to provide a recording with superior high-frequency characteristics.

### What is Dolby HX Pro

In ordinary recording using high-frequency biasing, the high-frequency bias current, which should be constant, is increased with some recording sources due to the high-frequency component contained in the music, etc. This increase affects the recording characteristics with distorted high frequencies and degraded dynamic range and frequency response.

The Dolby HX Pro circuit detects the high-frequency component contained in the music source being recorded, and reduces excessive bias current to make it constant. As a result, the recording characteristics of high frequencies are drastically improved, and the improved high-frequency reproduction can also be enjoyed even when the tape is played on tape decks which are not equipped with circuit.

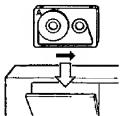
## How to record

The cassette deck incorporates the Dolby HX Pro headroom extension function and auto-bias function to provide a recording with superior high-frequency characteristics.

### ■ Ordinary recording

#### 1 Set up the cassette deck.

- ① Insert a tape.



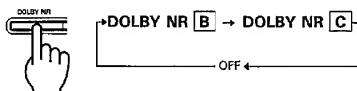
- ② Set the tape transport direction.

- ③ Select one-side or two-side recording.  
DIRECTION



..... Two-side recording  
..... One-side recording

- ④ Select the Dolby NR mode.



- ⑤ When recording tuner sound.



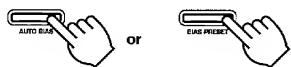
- To cancel, press the MPX FILTER key again.

#### 2 Select the source to be recorded.

#### 3 Activate the auto-bias setting.

Recording is possible even when the auto-bias setting is omitted.

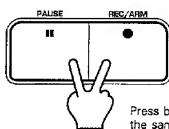
To cancel the auto bias function, press the AUTO BIAS key again.



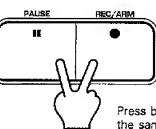
- The optimum bias is set in about 45 seconds, after which the deck enters the stop mode.
- To cancel the auto-bias adjustment operation in the middle, press the stop key.
- For the bias preset operation, refer to page 13.

#### 4 Set the recording level.

- ① Play a music source.



- ② Enter the record-pause mode.



- ③ Adjust the recording balance and recording level.

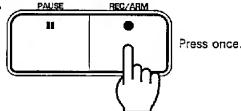


- ④ Stop playing the source.

#### 5 Start recording.

- ① Play the music source from the beginning.

- ② Press the **REC** key.



- The deck enters the stop mode automatically when the tape has been recorded till the end.

### Dolby noise reduction system

The Dolby noise reduction system was developed to reduce the tape hiss noise generated during playback.

The optimum effect of the Dolby NR system is obtained when the same type NR system is used for both recording and playback. If a different type NR system is used, playback is not performed correctly. Make sure that the same type noise reduction system is used for both recording and playback.

#### Dolby B NR

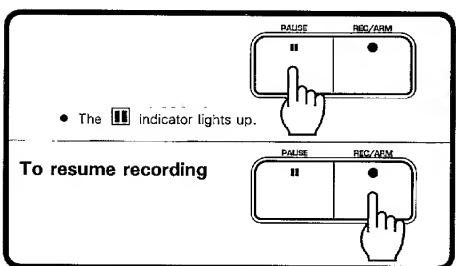
The most popular noise reduction system used in home audio components. Usually, Dolby NR system corresponds to B NR.

#### Dolby C NR

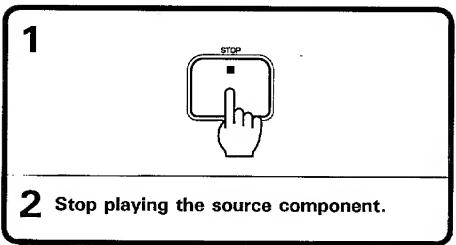
Dolby C NR offers improved noise reduction performance over that of the Dolby B NR. It features a superior noise reduction effect. Use Dolby C NR to record or playback with this unit.

It is recommended that tapes recorded with the Dolby NR system be marked "B" or "C", so that they can easily be distinguished.

## ■ To pause recording temporarily

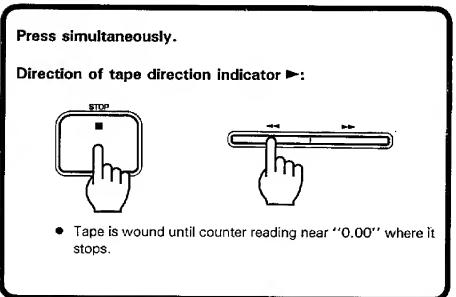


## ■ To stop recording



## ■ Zero-stop operation

Not available with remote control



## Usage of counter

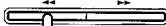
Before starting recording (playback), press the **COUNTER RESET** key to reset the counter to "0.00", and write down the counter reading when the recording (playback) should be stopped in the middle of the tape, etc.; this will make it easy to locate the same position when you want to continue recording (playback) next time.

## ■ To re-start recording after mistake

A non-recorded space of 4 seconds or more should be reserved before the position where recording was started.

### 1 Stop recording and rewind tape.

During recording in the ► direction:



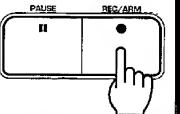
During recording in the ◀ direction:



- The recording is aborted, the tape is rewound to the position where the recording was started, and the deck enters the Rec pause mode after leaving a non-recorded space of about 2 seconds from the end of the previous tune.

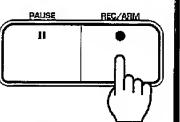
### 2 Re-start recording.

① Press the **■** key twice.



- A non-recorded space of 4 seconds is reserved on tape, then the tape deck enters the Rec pause mode.

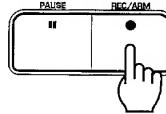
② Press the **■** key once.



## ■ How to provide non-recorded blanks between programs

### To make a non-recorded blank of 4 seconds in stop mode

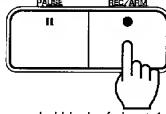
Press the **■** key twice in succession.



- After leaving a non-recorded blank of about 4 seconds, the deck enters the record-pause mode.

### To make a non-recorded blank during recording

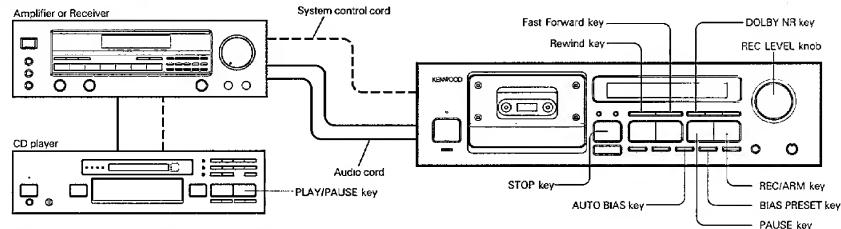
Press the **■** key once during recording.



- After running to make a non-recorded blank of about 4 seconds from the point where the key is pressed, the deck enters the record-pause mode.



By connecting this unit with a KENWOOD **(X)** type amplifier (receiver) with a SYSTEM CONTROL jack and a KENWOOD CD player with a SYSTEM CONTROL jack using system control cords, recording on this unit and playback on the CD player can be started simultaneously.



## ■ Synchro recording of CD

**1 Set the input selector switches of the amplifier for the CD source.**

**2 Place a CD in the CD player.**

- If your CD player can hold multiple discs, specify the disc number.

**3 Make preparations for recording.**

① Insert a tape.



② Set the tape transport direction.



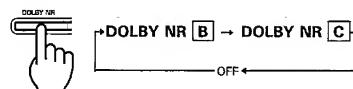
③ Select the side(s) to be recorded onto.

DIRECTION

Two-side recording  
One-side recording

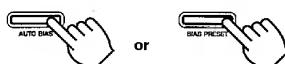


④ Select the Dolby NR mode.



**4 Activate the auto-bias setting.**

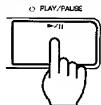
Recording is possible even when the auto-bias setting is omitted.



- The optimum bias is set in about 45 seconds, after which the deck enters the stop mode.
- For the bias preset operation, refer to page 13.

**5 Adjust the recording level.**

① Play a CD.



② Set the record-pause mode.



Press both keys at the same time.

③ Adjust the recording balance and recording level.

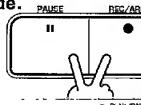


④ Stop playing the CD.



- The cassette deck returns to the stop mode.

**6 Set the record-pause mode.**



**7 Start playing the CD.**

- Recording starts at this moment.
- When the CD player has completed playback, the deck stops recording and enters the stop mode.

**To stop in the middle**

To pause.... Press the key of the CD player.

To restart recording.. Press the key of the CD player.

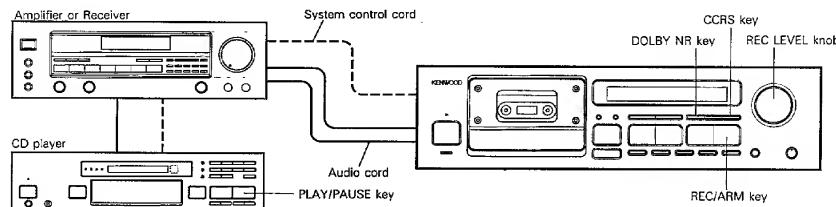
To stop..... Press the key of the CD player.

- If the stop key of the cassette deck is pressed, the cassette deck enters the stop mode but the CD player does not.

## Recording of CD playback

### About CCRS (Computer Controlled CD Recording System)

When connected with a KENWOOD CD player provided with "XS" marking through the system control cord, this unit allows to use the CCRS (Computer-controlled CD Recording System), which starts recording automatically after setting the optimum recording level for the CD and tape to be used in recording.



### ■ CCRS recording

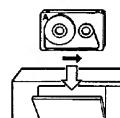
#### 1 Set the input selector switches of the amplifier for the CD source.

- When the amplifier is equipped with a REC OUT selector, set it to CD.

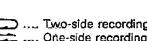
#### 2 Place a CD in the CD player.

#### 3 Set up the cassette deck.

- ① Insert a tape in deck.



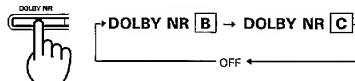
- ② Set the tape transport direction.



- ③ Select one-side or two-side recording.



- ④ Select the Dolby NR mode.



#### 4 Press the CCRS key.



- When this unit is connected to KENWOOD DP-R791, press the SPEED key so that the SPEED indicator goes off.
- When performing CCRS recording with a CD player which can be loaded multiple compact discs, set the CD player to TRACK mode, press the disc select key and press the CCRS key.
- The CD player enters the CCRS mode, and the sampled sound is played back.
- The cassette deck enters the record-pause mode and checks the sampled sound. Whenever an excessive input level is detected, it reduces the recording level to an optimum recording level for that input.
- When the CD level has been sampled, recording starts automatically.
- If the CD player is not connected to this unit via a synchro cord, the CCRS recording function will be canceled in about 30 seconds.

#### How to cancel CCRS

**During recording level setting:**  
Press the Stop key of the CD player or the stop key of the cassette deck.

**During CCRS recording:**  
Press the Stop key of the CD player, then press the OPEN/CLOSE key of the CD player.

**After completion of CCRS recording:**  
Press the OPEN/CLOSE key of the CD player.

- After completion of CCRS recording, be sure to cancel the CCRS and ensure that the CCRS indicator has gone off.
- After recording, the cassette deck and CD player enter the stop mode automatically.

## ■ Edited recording of CD

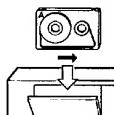
### 1 Set the input selector switches of the amplifier for the CD source.

- When the amplifier is equipped with a REC OUT selector, set it to CD.

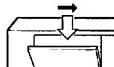
### 2 Place a CD in the CD player.

### 3 Set up the cassette deck.

① Insert a tape in deck.



② Set the tape transport direction.

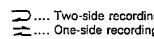


③ Select one-side or two-side recording.

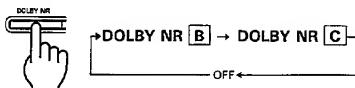
DIRECTION



.... Two-side recording



④ Select the Dolby NR mode.



### 4 Start editing.

- For the editing method, read the instruction manual of the CD player.

### 5 Press the CCRS key.



- The cassette deck enters the record-pause mode.
- The CD player enters the CCRS mode, and the sound sampled from the CD is played back.
- If the CD player is not connected to this unit via a synchro cord, the CD peak search function will be canceled in about 30 seconds.

## ■ Fade-in/fade-out recording

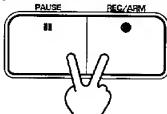
Fade-in refers to starting recording by gradually increasing the volume. Fade-out refers to ending recording by gradually decreasing the volume when recording it to be ended in the middle of a tune or when the tape runs out in the middle of a tune.

### Fade-in operation

Adjust the recording level beforehand.

#### 1 Pause recording.

Press at the position where fade-in is to be initiated.

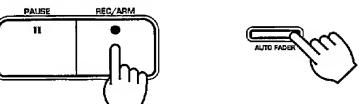


#### 2 Press the AUTO FADER key.

The REC LEVEL control knob moves automatically to the "0" position.



#### 3 Start fade-in.



then press

### Fade-out operation

#### Press the AUTO FADER key.

The REC LEVEL control knob moves automatically to the "0" position.



- When the key is pressed again, the control knob returns to the previous position.

## Timer operations

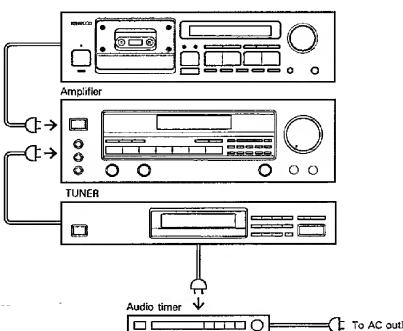
This unit incorporates a built-in timer standby function. By using an audio timer optionally available in the market, wake-up playback and unattended recording of tape can be started at any time of the day.

### Preparations for timer playback and recording

Connect the power cords of the components directly or indirectly to the timer so that their powers can be turned on via the timer.

The timer setup operation varies depending on the timer. Also read carefully the instruction manual of your audio timer.

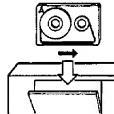
When operating the unit other than CD player using an audio timer, be sure to remove the disc from CD player.



### ■ Timer playback

**1** Set the power switches of the components used in timer playback to ON.

**2** Insert a cassette tape.



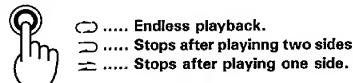
- The type of tape, that is, Normal, Chrome or Metal, is set automatically.
- Remove the tape slack before insertion.

**3** Set the playback condition.

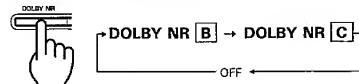
① Set the tape transport direction.

② Select the playback mode.

DIRECTION



③ Select the Dolby NR mode.



- Set according to the tape to be played.

**4** Start playback.

**5** Adjust the volume of the amplifier.

**6** Rewind the tape to the start position.

**7** Set the timer so that the tape starts at the desired time of the day.

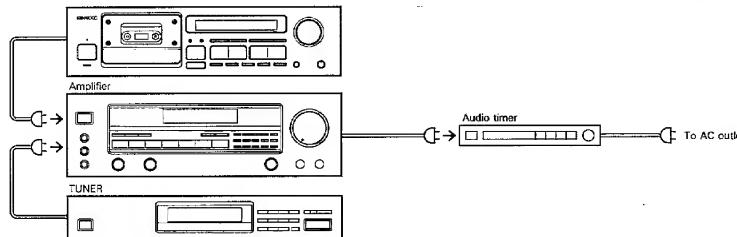
**8** Set the TIMER switch to PLAY.



- When the set time comes, tape playback starts automatically.
- Playback stops when the end of tape is reached.

#### Note:

The memories (bias preset, etc.) are held for about 3 days even when the power is not supplied. If the timer is set that the power is not ON for over 3 days, the memories may be erased.



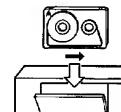
## ■ Timer recording of tuner broadcast

**1** Set the power switches of the components used in timer recording to ON.

**2** Receive the desired radio station with the tuner.

**3** Make preparations of the cassette deck.

① Insert a tape in a cassette deck.

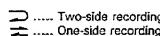


② Set the tape transport direction.

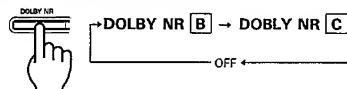


③ Select the side(s) to be recorded onto.

DIRECTION



④ Select the Dolby NR mode.



⑤ Set the MPX FILTER to ON.



- To cancel, press the MPX FILTER key again.

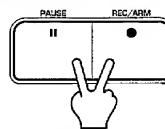
**4** Activate the auto-bias setting.



- For the bias preset operation, refer to page 13.

**5** Adjust the recording level.

① Enter the record-pause mode.



② Adjust the recording balance and recording level.



- Adjust so that the 0 dB segments of the peak level meter lights at times.

**6** Set the amplifier volume to the minimum position.

**7** Set the time when the recording is to be started.

- For the time setup operation, read the instruction manual of your timer.

**8** Set the TIMER switch to REC.



- When the set time comes, the powers of the related components are turned ON and recording starts.
- Recording stops when the end of tape is reached.

### Notes:

- To ensure that the cassette deck's automatic shut off switch operates before the power is shut off, set the timer so that it operates for a little longer than the playing time of the tape.
- The memories (bias preset, etc.) are held for about 3 days even when the power is not supplied. If the timer is set that the power is not ON for over 3 days, the memories may be erased.

## In case of difficulty

What appears to be a malfunction may not always be serious. If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Remedy
<b>Sounds is not produced when the Play key is pressed.</b>	<ul style="list-style-type: none"> <li>The connection cords are connected improperly.</li> <li>The head is dirty.</li> <li>Tape is irregularly wound and hard to take up.</li> <li>A non-recorded tape is being played.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the cords properly referring to "System connections".</li> <li>Clean the head referring to "Cleaning the head section".</li> <li>Replace the tape.</li> <li>Play a recorded tape.</li> </ul>
<b>The deck does not work when an operation key is pressed.</b>	<ul style="list-style-type: none"> <li>The cassette holder is not closed completely.</li> <li>The operation key was pressed immediately after closing the cassette holder.</li> <li>The operation key was pressed within less than 4 seconds after the power was turned on.</li> <li>Tape is not inserted.</li> <li>Tape is irregularly wound and hard to take up.</li> <li>Tape has been fully wound to reel.</li> </ul>	<ul style="list-style-type: none"> <li>Close the cassette holder completely.</li> <li>Press the desired operation key in a few seconds after closing the cassette holder.</li> <li>Press the desired operation key in more than 4 seconds after turning the power on.</li> <li>Insert a tape.</li> <li>Replace the tape.</li> <li>Change the tape transport direction or insert the tape inversely.</li> </ul>
<b>DPSS malfunctions.</b>	<ul style="list-style-type: none"> <li>The tape is not suitable for DPSS operation, for example the spaces between tunes are too short.</li> </ul>	<ul style="list-style-type: none"> <li>Read "DPSS operation".</li> </ul>
<b>CCRS does not work.</b>	<ul style="list-style-type: none"> <li>A disc is not placed in the CD player.</li> <li>The disc is dirty.</li> </ul>	<ul style="list-style-type: none"> <li>Place a disc in the CD player and press the CCRS key.</li> <li>Clean the disc, place it in the CD player, and press the <b>CCRS</b> key.</li> </ul>
<b>The cassette holder does not open when the OPEN/CLOSE key is pressed.</b>	<ul style="list-style-type: none"> <li>The key is pressed during recording.</li> </ul>	<ul style="list-style-type: none"> <li>Press in the Stop mode.</li> </ul>
<b>Sound is hoarse, or high frequencies are not audible.</b>	<ul style="list-style-type: none"> <li>The head is dirty.</li> <li>The tape is stretched or wrinkled.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the head referring to "Cleaning the head section".</li> <li>Replace the tape.</li> </ul>
<b>Sound is distorted.</b>	<ul style="list-style-type: none"> <li>The recording level was too high.</li> <li>A tape recorded with distorted sound is being played.</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the recording level referring to "How to record".</li> <li>Replace the tape.</li> </ul>
<b>Recording is not initiated when the REC key is pressed.</b>	<ul style="list-style-type: none"> <li>The protection tab on the cassette has been broken.</li> <li>The cassette holder is not closed completely.</li> <li>The recording level is set to the minimum position.</li> <li>The REC OUT selector on the amplifier is set to TAPE.</li> <li>Tape has been fully wound to a reel.</li> <li>Occurs depending on the disc.</li> </ul>	<ul style="list-style-type: none"> <li>Use a cassette with unbroken tab, or close the hole.</li> <li>Close the cassette holder completely.</li> <li>Adjust the recording level referring to "How to record".</li> <li>Press the REC OUT selector of the source to be recorded.</li> <li>Change the tape transport direction of Deck or insert the tape inversely.</li> <li>Increase the recording level with the REC LEVEL control.</li> </ul>
<b>Sound level is low when recorded in the CCRS mode.</b>		

Symptom	Cause	Remedy
Noise level is high.	<ul style="list-style-type: none"> <li>• The head is magnetized.</li> <li>• External noise is induced.</li> <li>• The recording level was too low.</li> <li>• A tape recorded with Dolby NR ON is being played with Dolby NR OFF.</li> </ul>	<ul style="list-style-type: none"> <li>• Demagnetize the head referring to "Cleaning the head section".</li> <li>• Install the system apart from other electrical appliances and TV set.</li> <li>• Adjust the recording level referring to "How to record".</li> <li>• Press the [DOLBY NR] key to B or C.</li> </ul>
Sound is vibrating.	<ul style="list-style-type: none"> <li>• The capstans or pinch rollers are dirty.</li> <li>• Tape is irregularly wound.</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the head referring to "Cleaning the head section".</li> <li>• Wind the tape regularly by fast forwarding, rewinding or playing it fully from one reel to another.</li> </ul>
Playback or recording starts immediately when the power is switched ON.	• The TIMER switch is set to PLAY or REC.	• Set the TIMER switch to OFF unless timer playback or timer recording is required.

Notes:

1. This unit is microprocessor-controlled, so malfunction may occur due to external noise or interference noise. In such a case, unplug the power cord, plug it and turn power on again.
2. Do not use contact cleaners because it could cause a malfunction. Be specially careful against contact cleaners containing oil, for they may deform the plastic components.
3. With some tapes, a squeaky noise is produced when the tape is stopped automatically. This is due to the tape protection function, and not a malfunction.
4. Do not use 120-minute tapes, for the tape is too thin and gets easily tangled.

**For CANADA  
DOC REGULATION**

"This digital apparatus does not exceed the CLASS B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications."

**For the U.S.A.  
FCC WARNING**

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

**NOTE:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Specifications

Track System ..... 4-track, 2-channel stereo  
Recording System ..... AC bias (Frequency: 105 kHz)  
Heads ..... Playback/recording head..... 1  
Erasing head..... 1  
Motors ..... DC motor × 2  
..... MODE motor × 1  
Fast Winding Time ..... Approx. 90 seconds (C-60 tape)  
Frequency Response:  
Normal Tape ..... 20 Hz to 16,000 Hz, ±3 dB  
CrO<sub>2</sub> Tape ..... 20 Hz to 17,000 Hz, ±3 dB  
Metal Tape ..... 20 Hz to 18,000 Hz, ±3 dB  
Signal-to Noise Ratio:  
DOLBY NR OFF ..... 55 dB  
..... (IEC, 250 nWb/m, Metal tape)  
DOLBY C NR ON ..... 73 dB  
DOLBY B NR ON ..... 66 dB  
DOLBY NR OFF ..... 58 dB  
..... (3rd H.D., 3%, Metal tape)

Harmonic Distortion ..... Less than 3.0%  
(at 315 Hz, 3rd H.D., 250 nWb/m, metal tape)  
Wow and Flutter ..... 0.07% (W.R.M.S.)  
± 0.20% (DIN)  
Input sensitivity/Impedance:  
LINE IN ..... 100 mV/47 kΩ  
Output Level/Impedance:  
LINE OUT ..... 775 mV/1.4 kΩ  
Headphones ..... 1.10 mW/32 Ω  
**[GENERAL]**  
Power Consumption ..... 22 W  
Dimensions ..... W: 440 mm (17-5/16")  
H: 127 mm (5")  
D: 257 mm (10-1/8")  
Weight (Net) ..... 4.4 kg (9.7 lb)

Note:  
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

**Note:**  
The unit's power supply is secondarily connected. Note following.  
The unit is not completely disconnected from the mains as long as  
the power cord is connected to a wall outlet.

**Observera:**  
Apparatenströmförsejning kopplas från sekundär. V.g. ge akt på  
följande.  
Apparaten fräknkopplas inte helt och hållt från strömnätet medan  
apparatenets nätsladd är ansluten till växelströmsuttaget.

**Huom:**  
Virta yksikköön on kytketty pois sekundaaripuoleita. Huomioida seuraavaa.  
Tämä yksikkö ei ole kokonaan kytketty pois pää virranjakajasta kun  
pää ketkaisin on liitetynä virtaistirriin.

**Bemerk:**  
Strømmen til apparatet afbrydes på den sekundære side. Vær opmærksom på følgende.  
Denne enhed er ikke fuldstændig koblet fra lysnettet så lenge stikket  
er tilsluttet stikkontakten.

**Anmerkning:**  
Strømmen til apparatet er slått av på sekundærsiden. Vær oppmerksom  
på det følgende.  
Dette apparatet koples ikke fullständigt fra nettet så länge stopselen  
står i en stikkontakt, selv om strömbytteren settes i av-stilling.